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APPLICANT : OWENS CORNING FIBERGLASS CORP;

INVENTOR : ZURSTRASSEN EDOUARD;

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TITLE : PREFORMABLE MAT

ABSTRACT : PURPOSE: To obtain a preforable mat suitable for preforming a complicated shape by applying a specific thermoplastic binder to a mat formed from a glass fiber material having a specified fiber length and a mixed specific wt.%, heat-treating the resultant mat and then cooling and solidifying the heat-treated mat.

CONSTITUTION: This preformable mat is obtained by applying forming size to a glass fiber material, chopping the resultant glass fiber material, mixing 40 wt.% of the cut material having 10.16 cm fiber length with 60 wt.% of the cut material having 15.24 cm fiber length, forming the mat, then applying a thermoplastic binder using an emulsion containing 55 wt.% of a mixture of equal amounts of a styrene-soluble polyester resin powder and a polystyrene resin powder and 45 wt.% of a polyvinyl acetate mowlith D-50 plasticized with 3% of polyethylene glycol ester adipate to the formed mat, subsequently heat- treating the formed mat at 250°C, surrounding the glass fiber material with the binder, then cooling the mat and solidifying the thermoplastic binder.

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